



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/690,359
Source: OPE
Date Processed by STIC: 10/30/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT

MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/690,359
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 ____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 ____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 ____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 ____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 ____ Variable Length	Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 ____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 ____ Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 ____ Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 ____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input checked="" type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 ____ Use of <220>	Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 ____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 ____ Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	



**Does Not Comply
Corrected Diskette Needed**

OIPE

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/690,359**

DATE: 10/30/2003

TIME: 14:05:59

Input Set : **A:\XTR004 CIP DIV 1.ST25.txt**Output Set: **N:\CRF4\10302003\J690359.raw**

```

3 <110> APPLICANT: GERDES, JOHN C.
4     MARMARO, JEFFREY
5     IVES, JEFFREY
6     ROEHL, CHRISTOPHER
8 <120> TITLE OF INVENTION: NUCLEIC ACID ARCHIVING
10 <130> FILE REFERENCE: XTR004 CIP DIV 1
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/690,359
C--> 12 <141> CURRENT FILING DATE: 2003-10-21
12 <150> PRIOR APPLICATION NUMBER: 09/944,604
13 <151> PRIOR FILING DATE: 2001-08-31
15 <150> PRIOR APPLICATION NUMBER: 09/061,757
16 <151> PRIOR FILING DATE: 1998-04-16
18 <150> PRIOR APPLICATION NUMBER: 60/041,999
19 <151> PRIOR FILING DATE: 1997-04-16
21 <160> NUMBER OF SEQ ID NOS: 10
23 <170> SOFTWARE: PatentIn version 3.2
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 21
27 <212> TYPE: DNA
28 <213> ORGANISM: Cryptosporidium parvum
30 <400> SEQUENCE: 1
31 gaggatagag gcatttggtt g                                21
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 20
36 <212> TYPE: DNA
37 <213> ORGANISM: Cryptosporidium parvum
39 <400> SEQUENCE: 2
40 gttttgtagg ggtcgctcat                                20
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44 <211> LENGTH: 100
45 <212> TYPE: DNA
46 <213> ORGANISM: Cryptosporidium parvum
48 <400> SEQUENCE: 3
49 ctatatcgta atacgctctg attacgtagg gagtggtact cctaacagta ggcctctgat    60
51 ttgtcagtcg acataccgct gcgctcaaat ccttttagaa                    100
54 <210> SEQ ID NO: 4
55 <211> LENGTH: 15
56 <212> TYPE: DNA
57 <213> ORGANISM: Mycobacterium tuberculosis
59 <400> SEQUENCE: 4
60 cgatcgagca agcca                                15
63 <210> SEQ ID NO: 5
64 <211> LENGTH: 15

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/690,359

DATE: 10/30/2003

TIME: 14:05:59

Input Set : A:\XTR004 CIP DIV 1.ST25.txt

Output Set: N:\CRF4\10302003\J690359.raw

65 <212> TYPE: DNA
 66 <213> ORGANISM: Mycobacterium tuberculosis
 68 <400> SEQUENCE: 5
 69 cgagccgctc gctga 15
 72 <210> SEQ ID NO: 6
 73 <211> LENGTH: 40
 74 <212> TYPE: DNA
 75 <213> ORGANISM: to use with M. Tuberculosis
 77 <400> SEQUENCE: 6
 78 accgcatcga atgcatgtct cgggtaaggc gtactcgacc
 81 <210> SEQ ID NO: 7
 82 <211> LENGTH: 40
 83 <212> TYPE: DNA
 84 <213> ORGANISM: to use with M. Tuberculosis
 86 <400> SEQUENCE: 7
 87 cgattccgct ccagacttct cgggtgtact gagatcccct 40
 90 <210> SEQ ID NO: 8
 91 <211> LENGTH: 28
 92 <212> TYPE: DNA
 93 <213> ORGANISM: Homo sapiens
 95 <400> SEQUENCE: 8
 96 ataatccacc tatccagta ggagaaat 28
 99 <210> SEQ ID NO: 9
 100 <211> LENGTH: 28
 101 <212> TYPE: DNA
 102 <213> ORGANISM: Homo sapiens
 104 <400> SEQUENCE: 9
 105 ttgggtcctt gtcttatgtc cagaatgc 28
 108 <210> SEQ ID NO: 10
 109 <211> LENGTH: 100
 110 <212> TYPE: DNA
 111 <213> ORGANISM: Homo sapiens
 113 <400> SEQUENCE: 10
 114 atcctatattg ttctgaagg gtactagtag ttctgctat gtcacttccc cttggttctc 60
 116 tcactctggcc tgggtgcaata ggccctgcat gcaactggatg 100

See item #10 on
ERROR SUMMARY SHEET

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/690,359

DATE: 10/30/2003

TIME: 14:06:00

Input Set : A:\XTR004 CIP DIV 1.ST25.txt

Output Set: N:\CRF4\10302003\J690359.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date